



CPT1A Rabbit mAb

Catalog No	YP-rAb-17574
Isotype	IgG
Reactivity	Human,Mouse,Rat,Duck
Applications	WB,IHC,IF,ELISA
Gene Name	CPT1A CPT1
Protein Name	CPT1A
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	Carnitine O-palmitoyltransferase 1, liver isoform ; CPT1-L ; Carnitine O-palmitoyltransferase I, liver isoform ; CPT I ; CPTI-L ; Carnitine palmitoyltransferase 1A ;
Observed Band	88kD
Calculated Molecular Weight	88kD
Cell Pathway	Mitochondrion outer membrane
Tissue Specificity	Strong expression in kidney and heart, and lower in liver and skeletal muscle.
Function	Catalytic activity:Palmitoyl-CoA + L-carnitine = CoA + L-palmitoylcarnitine.,Disease:Defects in CPT1A are the cause of carnitine palmitoyltransferase I deficiency (CPT-I deficiency) [MIM:255120]; also known as CPT1A deficiency. CPT I deficiency is a rare autosomal recessive metabolic disorder of long-chain fatty acid oxidation characterized by severe episodes of hypoketotic hypoglycemia usually occurring after fasting or illness. Onset is in infancy or early childhood.,enzyme regulation:Inhibitors such as malonyl-CoA interact with its catalytic domain and not with an associated regulatory component.,pathway:Lipid metabolism; fatty acid beta-oxidation.,similarity:Belongs to the carnitine/choline acetyltransferase family.,tissue specificity:Strong expression in kidney and heart, and lower in liver





and skeletal muscle.,

Background

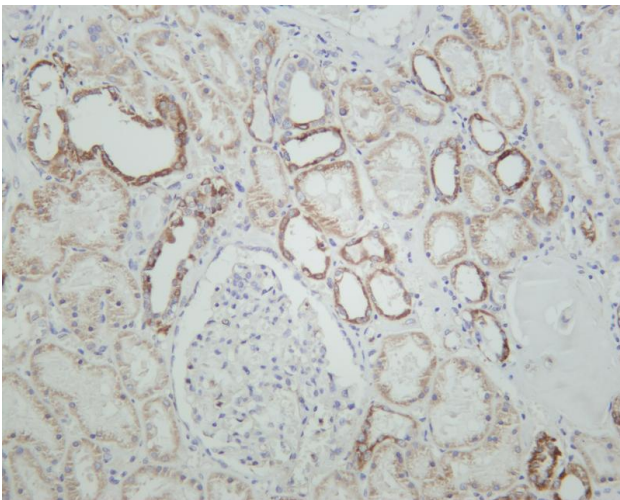
The mitochondrial oxidation of long-chain fatty acids is initiated by the sequential action of carnitine palmitoyltransferase I (which is located in the outer membrane and is detergent-labile) and carnitine palmitoyltransferase II (which is located in the inner membrane and is detergent-stable), together with a carnitine-acylcarnitine translocase. CPT I is the key enzyme in the carnitine-dependent transport across the mitochondrial inner membrane and its deficiency results in a decreased rate of fatty acid beta-oxidation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

matters needing attention

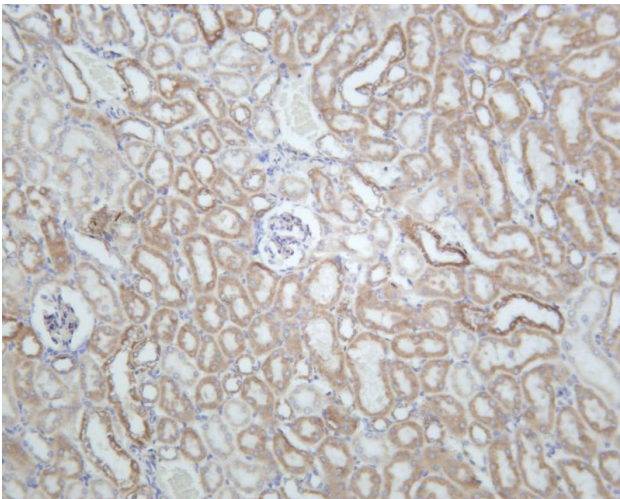
Avoid repeated freezing and thawing!

Usage suggestions

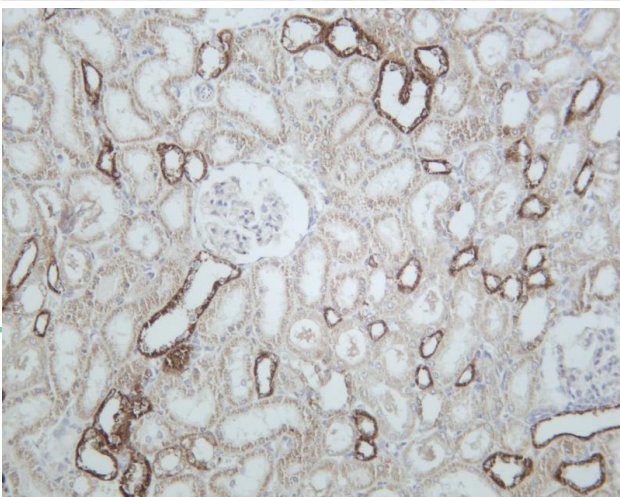
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Human kidney was stained with anti-CPT1A rabbit antibody

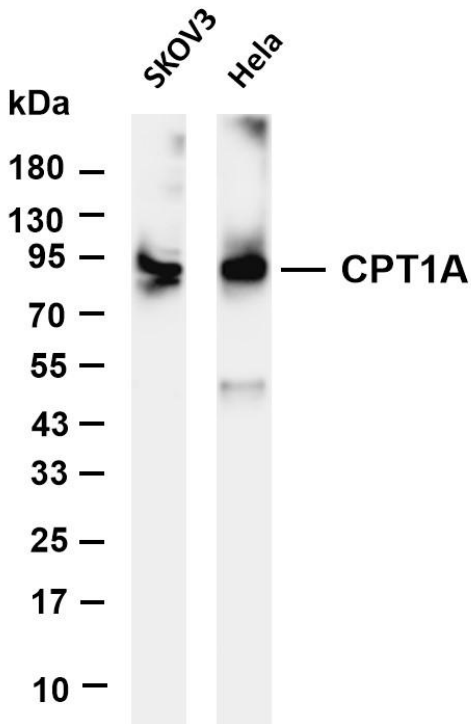


Mouse kidney was stained with anti-CPT1A rabbit antibody



Rat kidney was stained with anti-CPT1A rabbit antibody





Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CPT1A antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: SKOV3 Lane 2: HeLa Predicted band size: 88kDa Observed band size: 88kDa

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